CLAIMS

- 1. A device for repairing a moving handrail of a passenger conveyor, for repairing a moving handrail having a surface portion made of a thermoplastic material, comprising heating means for melting the surface portion through heating.
- 2. The device for repairing a moving handrail of a passenger conveyor according to Claim 1, wherein the heating means has a mold bonded to an upper surface of the surface portion on an onward side of a path of the moving handrail, and an electric heater for heating the mold.
- 3. The device for repairing a moving handrail of a passenger conveyor according to Claim 1, further comprising fixing means having a magnet portion magnetically adsorbed on a railing supporting the moving handrail, for fixing the heating means to the railing.
- 4. The device for repairing a moving handrail of a passenger conveyor according to Claim 1, further comprising cooling means for cooling the surface portion that has been melted through heating by the heating means.
 - 5. The device for repairing a moving handrail of a passenger

conveyor according to Claim 1, further comprising grinding means for grinding down the surface portion before the surface portion is heated by the heating means.

- 6. The device for repairing a moving handrail of a passenger conveyor according to Claim 1, further comprising a spacer abutting on the surface portion, for maintaining a predetermined gap between the heating means and the surface portion.
- 7. The device for repairing a moving handrail of a passenger conveyor according to Claim 6, wherein the spacer is a spacer roller for rolling with respect to the surface portion.
- 8. The device for repairing a moving handrail of a passenger conveyor according to Claim 1, wherein the heating means is a heating roller for heating the surface portion while rolling with respect to the surface portion.
- 9. The device for repairing a moving handrail of a passenger conveyor according to Claim 1, further comprising: drive means for moving the heating means in a longitudinal direction of the moving handrail.
 - 10. A method of repairing a moving handrail of a passenger

conveyor, the moving handrail having a surface portion made of a thermoplastic material, comprising the steps of:

melting a target spot to be repaired of the surface portion through heating; and

curing the target spot again.

- 11. The method of repairing a moving handrail of a passenger conveyor according to Claim 10, wherein the target spot is heated at a temperature of 180°C to 200°C.
- 12. The method of repairing a moving handrail of a passenger conveyor according to Claim 10, wherein the target spot is melted through heating after having been moved to a linear portion of a path of the moving handrail.
- 13. The method of repairing a moving handrail of a passenger conveyor according to Claim 10, further comprising the step of removing dirt on the target spot before melting the target spot through heating.
- 14. The method of repairing a moving handrail of a passenger conveyor according to Claim 10, wherein the moving handrail is caused to run while the surface portion is heated so that a heated spot of the surface portion is moved in a longitudinal direction of the

moving handrail.

15. The method of repairing a moving handrail of a passenger conveyor according to Claim 14, wherein the moving handrail is caused to run at a running speed lower than a running speed during normal operation.